

ABSTRACT

Feeding a recording medium through a printer for printing images on the recording medium by actuating a line feeding motor in predetermined stepped increments, feeding the recording medium through the printer by a line feeding device driven by the line feeding motor, printing a image on the recording medium by a print head scanning across the recording medium and ejecting ink from nozzles, the print head having  $j$  nozzles spaced at a predetermined pixel resolution that is less than a pixel resolution printed by the printer,  $j$  being an integer number, controlling the actuating step to actuate the line feed motor in stepped increments, and controlling the  $j$  nozzles utilized in printing the image. For each stepped increment of the line feed motor, the line feeding device feeds the recording medium  $(m \times 1/n)$  pixels of the print head pixel resolution, where  $m$  and  $n$  are integer numbers and  $m$  is greater than  $n$ . The  $j$  nozzles that print in any one scan of the print head are controlled based on the number of increments of the line feed motor. Additionally, a print driver calculates a line skip amount and a buffer offset amount, and adjusts a starting position for storing of the image data in a print buffer in a case where a first line of image data to be stored in the print buffer is white data.

30